ABSTRACT

A flexible post for endodontic or reconstructive tooth therapy having a modulus of elasticity which is less than or equal to that of dentin of 18 GPa (giga Pascals). The present invention is preferably made of medical grade optical glass fibers or fiberglass fibers. The micro filaments of the present invention are treated to impart flexibility to each fiber. The fibers are twisted by twisting on other non-axial arrangements of the fibers to impart strength to the unit post. This allows it to function as a permanent post in a tooth. The dental post is flexible and the post conforms to the natural curved contours of a root canal to reduce machining of the tooth and mechanical weakening of the tooth structure.

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